MMM MMM MMM		MMM MMM MMM	111111111111111 1111111111111111 111111	AAAAAA AAAAAA AAAAAA	N .	AAAAAAA AAAAAAA	A	00000000000 00000000000000000000000000	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	•
MMMMMM		MMMMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMMM	M	MMMMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMMM	M	MMMMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
	MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
	MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
	MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP)
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP)
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP)
MMM		MMM	TTT	AAAAAAAAAA	AAA	*****	AAAA	ČČČ	PPP	
MMM		MMM	TTT	AAAAAAAAA		*****	AAAA	ČČČ	PPP	
MMM		MMM	TTT	AAAAAAAAA	AAA	AAAAAAAAAA		ČČČ	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMP,		MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	000000000000000000000000000000000000000	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	000000000000	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	ČČČČČČČČČČČČČ	PPP	

)))))))))

RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	
LL LL LL LL LL LL LL LL LL LL LL LLLLLL		\$			

REI VÕ

```
MODULE REWSPC (LANGUAGE (BLISS32) , IDENT = 'V04-000'
```

BEGIN

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FACILITY: MTAACP

ABSTRACT:

This module rewinds a file and spaces within a file

ENVIRONMENT:

STARLET operating system, including privileged system services and internal exec routines.

AUTHOR: D. H. GILLESPIE, CREATION DATE: 6-AUG-1977

MODIFIED BY:

V03-003 ROW0258

The Paul Painter Memorial Enhancement
Named for one of the unfortunate customers who suffered much
to determine the great UCB\$L_MT_RECORD secret while trying to
create a user-written magtape driver, this change eliminates
use of the device dependent field, UCB\$L_MT_RECORD in favor of
the device independent field, UCB\$L_RECORD.

```
M 7
REWSPC
                                                                                                16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                                                    VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1
                                                                                                                                                                                           Page
V04-000
                                                                                                                                                                                                   (1)
                       0058
0059
0060
     58
59
                                                V03-002 MMD0147
                                                            MMD0147 Meg Dumont, 26-Apr-1983 8:46 Change references to 80 to the symbol ANSI_LBLSZ
                                                                                                            26-Apr-1983 8:48
      60
                        0061
0062
0063
0064
0065
                                                            MMD0001 Meg Dumont, 3-Jan-1983 16:13 Add modifier IO$M_CLRSEREXCP to all QIO's issued by the MTAACP, necessary for the MSCP tape drives.
     61
                                                V03-001 MMD0001
     62
63
      64
     65
                                                VO2-004 REFORMAT
                                                                                    Maria del C. Nasr
                                                                                                                         30-Jun-1980
                        0066
0067
0068
0069
0070
     66
     67
                                 1 !**
     68
     69
                                   LIBRARY 'SYS$LIBRARY:LIB.L32';
      70
     71
                                    REQUIRE 'SRC$:MTADEF.B32':
                        0455
0456
0457
0458
0459
     72
73
                                   FORWARD ROUTINE
                                         REWIND FILE
SPACE IN FILE
SETUP AT END
SETUP END
UPD_ST_RECORD
     74
75
                                                                        : COMMON_CALL NOVALUE,
: COMMON_CALL NOVALUE,
: COMMON_CALL NOVALUE,
: COMMON_CALL NOVALUE,
                                                                                                               main control for rewind file
                                                                                                                space within a file
     76
77
                                                                                                               setup at end of file after checking position
                        0460
                                                                                                                setup at end
                        0461
0462
0463
     78
                                                                        : COMMON_CALL NOVALUE;
                                                                                                               update start record in current file section
      79
                                   EXTERNAL ROUTINE
CLOSE FILE
FORMAT FID
GTNEXT VOL READ
MOUNT VOL,
POSITION BY FID
READ BLOCK
     80
     81
                        0464
                                                                        : L$CLOSE_FILE, : COMMON_CALL,
                                                                                                                close file
     82
                        0465
                                                                                                                format file ID in current VCB
     83
                        0466
                                                                        : NOVALUE JSB.
                                                                                                                get next volume on read
     84
                        0467
                                                                                                                mount relative volume
                                                                        85
                        0468
                                                                                                                position by FID
                        0469
     86
                                          READ_BLOCK
RESTORE_ACCESS
                                                                                                                read data block
     87
                        0470
                                                                                                               restore original access to file
                                         SPACE TM
SPACE TM
SYSSQIOW
     88
                        0471
                                                                                                               space blocks
                       0472
0473
     89
                                                                                                               space tape marks
     90
     91
                        0474
     92
93
                        0475
                                   EXTERNAL
                       0476
                                          CURRENT_UCB : REF BBLOCK, CURRENT_WCB : REF BBLOCK,
                                                                                                               address of current UCB
     94
95
                                                                                                               address of current window control block
                                                            : REF BBLOCK,
: REF BBLOCK,
                        0478
                                                                                                               address of HDR1 (EOF1) label address of HDR2(EOF2) label
     96
97
                        0479
                                          HDR2
                                         LOCAL_FIB : BBLOCK,
IO_CHANNEL,
IO_STATUS : VECTOR [2],
USER_STATUS : VECTOR [2];
                        0480
                                                                                                               copy of user's FIB
     98
                        0481
                        0482
0483
     ġğ
                                                                                                            ! IO status
    100
                                                                                                            ! status returned to user
    101
                        0484
```

REV

```
RE
VO
```

Page

```
REWSPC
                                                                                     16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                                     VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                     [MTAACP.SRC]REWSPC.B32:1
                               GLOBAL ROUTINE REWIND_FILE : COMMON_CALL NOVALUE =
                     0486
0487
   104
   105
   106
107
                     0488
                     0489
                                  FUNCTIONAL DESCRIPTION:
                                          This routine rewinds to the beginning of the current file. if the beginning is on another volume, that volume is mounted and positioned to the beginning of the files data area. Once at the beginning the access to the file is reset to the original
    108
                     0490
                     0491
0492
0493
    109
   110
   111
   112
                     0494
                                          requested access.
                     0496
   114
                                  CALLING SEQUENCE:
   115
                                          REWIND_FILE()
   116
                     0498
                     0499
                                  INPUT PARAMETERS:
   118
                     0500
                                          none
   119
                     0501
                     0502
0503
   IMPLICIT INPUTS:
                                          CURRENT_VCB - address of current volume control block
                     0504
                                          CURRENT_WCB - address of current window control block
                     0505
                     0506
0507
                                  OUTPUT PARAMETERS:
                                          none
                     0508
                     0509
                                  IMPLICIT OUTPUTS:
                     0510
                                          none
                     0511
                     0512
                                  ROUTINE VALUE:
                                          none
                     0514
0515
                                  SIDE EFFECTS:
                     0516
0517
                                          file positioned to beginning
                                          original access restore
                    0518
                     0519
                                  USER ERRORS:
                    0520
0521
0522
0523
0524
0525
0526
0527
0528
                                          SS$_FILNOTACC - file not accessed
   140
   141
142
143
                                     BEGIN
                                     EXTERNAL REGISTER
   144
                                          COMMON_REG;
   145
   146
147
                                     LOCAL
                                          FID.
                                                                                                  file identification
                     0530
   148
                                          SEQ.
                                                                                                  file section sequence number
   149
                     0531
                                          TM.
                                                                                                  tape marks
                     0532
0533
   150
                                                                                                ! relative volume number
                                          VOL:
   151
                                     if file is not accessed give error
   152
153
                     0534
0535
   154
                     0536
0537
   155
                                     IF .CURRENT_WCB EQL 0
   156
157
                     0538
                                     THEN
                     0539
                                          ERR_EXIT(SS$_FILNOTACC);
   158
                     0540
   159
                     0541
                                     ! if writing, then close out file
```

; F

Page

```
161
                     0544
0545
0546
0547
0548
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165
166
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168
169
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                     0560
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                     0561
                     0562
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                     0574
                     0575
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                     0576
                     0577
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                     0578
                     0579
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                     0584
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                     0586
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                     0589
                     0590
                     0591
                     0592
0593
211
212
213
214
215
216
                     0594
                     0595
                     0598
```

```
IF_NOT .CURRENT_WCB[WCB$V_READ]
    CLOSE_FILE();
  calculate which relative volume the beginning is on
SEQ = .CURRENT_VCB[VCB$W_CUR_SEQ];
                                                   ! file section number
IF .SEQ EQL 1
THEN
    BEGIN
                                         ! currently in first file section
    IF .CURRENT_VCB[VCB$V_LOGICEOVS]
         SPACE_TM(-4)
                                                   ! write case
    ELSE
         BEGIN
                                                   ! read case
           number of tape marks into current file section
         TM = .CURRENT_VCB[VCB$B_TM];
         IF .TM EQL O AND .HDR1[HD1$L_HD1LID] NEQ 'HDR1'
         THEN
             TM = 3:
         IF .TM GEQ 1
         THEN
                backspace to tape mark preceding start of data
             SPACE_TM(-.TM);
         END:
    SPACE_TM(1);
                                                   ! pass over TM
    HDR1[AD1$L_HD1LID] = 'HDR1';
    IF HDR2[HD2$L_HD2LID] NEQ 0
         HDR2[HD2$L_HD2LID] = 'HDR2';
    END
ELSE
    BEGIN
     ! current file number and section
    FID = .CURRENT_VCB[VCB$L_CUR_FID];

FID<16, 16> = T;

VOL = .CURRENT_VCB[VCB$B_CUR_RVN];

VOL = .VOL - .SEQ + 1;

POSITION_BY_FID(.FID, .VOL);
                                                     want section one
                                                     current volume
                                                     calculate volume wanted
                                                    position to file section
    IF .CURRENT_VCB[VCB$B_TM] EQL 0
```

REWSPC V04-000 : 217 : 218 : 219 : 220 : 221 : 222 : 223	0599 0600 0601 0602 0603 0604 2 0605 1		END;	ACE_TM(1);	ESS);				84 02:31 84 12:46 origina	:54 VAX-11 Bliss-32 V4.0-742 :49 [MTAACP.SRC]REWSPC.B32;1	Page 5 (2)
		05	0B 31524448 0000G	53 0000G 50 0000G 50 0000G 52 26 AB 7E 50 2E 8F 0000G 50 7E 63 31524448 50 32524448 51 24	CF CF O4 8F CF	9D1BDE33D1EC191D1D01CFDFDD1D1	00007 0000B 0000D	2\$: 3\$: 4\$: 5\$: 6\$:	LET NNNNNNNNN T Y ITO XTTRNNNNNNN T Y EEEEXXTTRNNNNNN T Y MINOR BBND BBND BBND BBND BBND BBND BBND BBN	REWSPC \V04-000\ CLOSE FILE, FORMAT_FID GTNEXT VOL READ MOUNT VOL, POSITION_BY FID READ BLOCK, RESTORE_ACCESS SPACE, SPACE TM SYS\$QIOW, CURRENT_UCB CURRENT_WCB, HDR1 HDR2, LOCAL_FIB IO_CHANNEL, IO_STATUS USER_STATUS, SYS\$CMKRNL \$CODE\$,NOWRT,2 REWIND FILE, Save R2,R3,R10 SPACE TM, R3 CURRENT_WCB 1\$ 172 CURRENT_WCB, R0 11(R0)	0485 0537 0539 0544 0550 0552 0558 0566 0566 0566 0570 0575 0579 0580 0582 0582 0593
	51	10		10	VΙ	rU	00070		1 42 A	wi, wio, wio, riu	; 0373

REW VO4

REWSPC V04-000					D 8 16-Sep 14-Sep	-1984 02:31:54 -1984 12:46:49	VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1	Page 6
	52	50 50 50	2F 01	AB 52 A2 50	9A 00075 C3 00079 9E 0007D	SUBL3 SE MOVAB 10	(CURRENT VCB), VOL EQ, VOL, R2 (R2), VOL	: 0594 : 0595
	0000G	CF	26	51 02 AB 05	DD 00081 DD 00083 FB 00085 95 0008A	CALLS #2 TSTB 46	ID 2, POSITION_BY_FID 5(CURRENT VCB)	0596
		63		01 01 7E	12 0008D DD 0008F FB 00091 D4 00094 8\$:	CLRL -(l, SPACE_TM (SP)	0600
	000000006	9F	00006	5E CF 03	DD 00096 9F 00098 FB 0009C 04 000A3	PŪSHL SF PUSHAB RE CALLS #3 RET	STORE ACCESS B, amsys\$cmkrnl	0605

; Routine Size: 164 bytes. Routine Base: \$CODE\$ + 0000

; 224 0606 1

•••••••

REV VO4

Page

```
ROUTINE SETUP_END (TM) : COMMON_CALL NOVALUE =
0607
                 0608
                 0609
                           !++
                 0610
0611
0612
0613
0614
0615
                              FUNCTIONAL DESCRIPTION:
                                     Setup at end of file
                              CALLING SEQUENCE:
                                     SETUP_END(ARG1)
                 0616
                              INPUT PARAMETERS:
                 0618
0619
                                     ARG1 - number of tape marks to be spaced and direction
                 0620
0621
0623
0624
0625
0626
0627
0628
0629
                              IMPLICIT INPUTS:
                                     CURRENT_UCB - address of current unit control block HDR1 - address of 'HDR1' and 'EOF1' label
                              OUTPUT PARAMETERS:
                                     none
                              IMPLICIT OUTPUTS:
                                     CURRENT_VCB[VCB$L_ST_RECORD]
                              ROUTINE VALUE:
                 0631
0632
0633
                                     none
                              SIDE EFFECTS:
                 0634
0635
                                     none
                0636
0637
0638
0639
0640
                                BEGIN
                                EXTERNAL REGISTER
                 0641
                                     COMMON_REG;
                0642
0643
0644
261
262
263
                                EXTERNAL ROUTINE
                                     LIB$CVT_DTB
                                                          : ADDRESSING_MODE (ABSOLUTE);
                0645
0646
0647
0648
264
265
                                LOCAL
266
267
                                     BLOCK:
268
269
270
                                SPACE_TM(.TM);
                                                          ! space to end of file, right before end date TM
                 0650
0651
                                ! setup as if trailers had not been read
                 0652
0653
271
                                HDR1[HD1$L_HD1LID] = 'HDR1';
                 0654
0655
274
275
                                1F HDR2[HD2$L_HD2LID] NEQ 0
                 0656
0657
276
277
                                     HDR2[HD2$L_HD2LID] = 'HDR2';
                 0658
0659
278
279
                                IF NOT LIB$CVT_DTB(E01$S_BLOCKCNT, HDR1[E01$T_BLOCKCNT], BLOCK)
                 0660
                                THEN
280
                 0661
                                     ERR_EXIT(SS$_BLOCKCNTERR);
                 0662
0663
281
                                BLOCK = .CURRENT_UCB[UCB$L_RECORD] - .BLOCK;
```

REWSPC V04-000 : 283 : 284	0664 2 0665 1	KERNEL_CAL END;	.L(UPD_ST_RE	CORD,	.BLO		5-Sep-19 5-Sep-19	984 02:31 984 12:46	:54 VAX-11 Bliss-32 V4.0-742 :49 [MTAACP.SRC]REWSPC.B32;1	Page 8 (3)
								.EXTRN	LIB\$CVT_DTB	
				(0000	00000	SETUP_	END:		
	7 E	0000G 0000G	5E OF DF 3152444 50 000 60 3252444 CF	04 AC 01 B 8F OG CF 07	CDD BDD DDD DDD DDD C1	00002 00005 00008 00000 00016 0001B 0001D 00024 00026		.WORD SUBL2 PUSHL CALLS MOVL BEQL MOVL PUSHL ADDL3 PUSHL CALLS BLBS CHMU	Save nothing #4, SP TM #1, SPACE TM #827475016, ahDR1 HDR2, RO 1\$ #844252232, (RO) SP #54, HDR1, -(SP)	. 0607 . 0649 . 0653 . 0655 . 0657 . 0659
	6 E	00000000G 00B0	9F 04 094 50 000 00	8	DD FB E8 BF DO C3 DD	0002E 0002E 00035 00038 0003C 00041 00047	2\$:	PUSHL CALLS BLBS CHMU MOVL SUBL3 PUSHL PUSHL	#6 #3, a#LIB\$CVT_DTB R0, 2\$ #2368 CURRENT_UCB, R0 BLOCK, T76(RO), BLOCK BLOCK	0661 0663 0664
		000000006	9F	5E 0V CF 04	DD 9f fB 04	00049 0004B 0004D 00051 00058		PUSHL PUSHAB CALLS RET	#1 SP UPD_ST_RECORD #4, @#SYS\$CMKRNL	0665

; Routine Size: 89 bytes, Routine Base: \$CODE\$ + 00A4

```
8
REWSPC
                                                                                      16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                                     VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1
                                                                                                                                                                      Page
V04-000
                     0666
0667
0668
    2867
2889
2912
293
2967
298
                                ROUTINE UPD_ST_RECORD (BLOCK) : COMMON_CALL NOVALUE =
                             1
                     0669
0670
0671
0672
0673
0674
0675
0677
                                  FUNCTIONAL DESCRIPTION:
                                          This routine updates the start record count in the volume control block and sets the TM count to 1 because now positioned before end data TM
                                  CALLING SEQUENCE:
                                          UPD_ST_RECORD(ARG1)
called in kernel mode
                     0678
0679
                                   INPUT PARAMETERS:
    299
                                          ARG1 - new value of start record count
    300
                     0680
    301
                     0681
                                  IMPLICIT INPUTS:
                     0682
0683
                                           CURRENT_VCB
    303
    304
                     0684
                                  OUTPUT PARAMETERS:
    305
                     0685
                                          none
                     0686
0687
    306
    307
                                  IMPLICIT OUTPUTS:
    308
                     0688
                                          CURRENT_VCB[VCB$L_ST_RECORD] = BLOCK
    309
                     0689
    310
                     0690
                                  ROUTINE VALUE:
    311
                     0691
                                          none
   312
313
                     0692
0693
                                  SIDE EFFECTS:
                     0694
0695
    314
                                          none
    315
   316
317
                     0696
9697
   318
319
                     0698
                                     BEGIN
                     0699
   320
321
322
323
324
325
                     0700
                                     EXTERNAL REGISTER
                     0701
                                          COMMON_REG;
                     0702
0703
                                     CURRENT_VCB[VCB$B_TM] = 1;
                     0704
                                     CURRENT_VCB[VCB$L_ST_RECORD] = .BLOCK;
                     0705
                                     END:
                                                                         0000 00000 UPD_ST_RECORD:
                                                                                                                                                                           0666
0703
                                                                                                   .WORD
                                                                                                              Save nothing
                                                                                                              #1, 46(CURRENT_VCB)
                                             2E
30
                                                    AB
AB
                                                                       01
                                                                            90 00002
                                                                                                   MOVB
                                                                            DO 00006
                                                                                                                                                                           0704
                                                                04
                                                                       AC
                                                                                                   MOVL
                                                                                                              BLOCK, 48(CURRENT_VCB)
                                                                            04 0000B
                                                                                                   RET
                                                                                                                                                                           0705
; Routine Size: 12 bytes,
                                        Routine Base: $CODE$ + OOFD
: 326
```

RW\

VÕ

VO

VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.832;1

```
0707
0708
0709
0710
                             0711
                             0712
0713
                             0714
0715
                             0716
0717
339
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                             0718
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                             0728
0729
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355
                             0731
                            0734
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                             0738
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                             0740
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                             0741
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375
376
377
378
379
                             0758
380
                             0759
381
                             0760
                             0761
```

```
GLOBAL ROUTINE SPACE_IN_FILE : COMMON_CALL NOVALUE =
1++
  FUNCTIONAL DESCRIPTION:
        This routine spaces forwards and backwards within a file
  CALLING SEQUENCE:
        SPACE_IN_FILE()
  INPUT PARAMETERS:
        none
  IMPLICIT INPUTS:
        CURRENT_VCB - address of current volume control block
        LOCAL_FIB - copy of user's file information block
  OUTPUT PARAMETERS:
        none
  IMPLICIT OUTPUTS:
        none
  ROUTINE VALUE:
        none
 SIDE EFFECTS:
        none
  USER ERRORS:
        SSS_BEGOFFILE - beginning of file
SSS_ENDOFFILE - end of file
SSS_FILNOTACC - file net accessed
        SS$_BADPARAM - can not space forward if writing
        SS$ TAPEPOSLOST - tape position lost
    BEGIN
    EXTERNAL REGISTER
        COMMON_REG;
    STACKLOCAL
        BLOCKS:
                                   ! number of blacks to space
    LOCAL
                                   ! number of tape marks into file section
    ! file must be accessed
    IF .CURRENT_WCB EQL O
    THEN
        ERR_EXIT(SS$_FILNOTACC);
    BLOCKS = .LOCAL_FIB[FIB$L_CNTRLVAL];
```

```
RW\
VO
```

11 (5)

Page

```
I 8
16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
REWSPC
                                                                                                        VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1
V04-000
                   0764
0765
0766
0767
0768
0769
0770
                                 IF .BLOCKS GTR O
   386789012345678901
378889012345678901
                                 THEN
                                                                            ! sign determines direction to space
                                      BEGIN
                                                                           ! beginning of forward space
                                      IF .BLOCKS<16, 16> NEQ 0
                                      THEN
                                          ERR_EXIT(SS$_BADPARAM);
                                        can not space forward if writing
                                      If NOT .CURRENT_WCB[WCB$V_READ]
                                          ERR_EXIT(SS$_BADPARAM);
                                       position to data in current file section
                   0780
   402
                   0781
                  0782
                                          .CURRENT_VCB[VCB$B_TM] EQL O
   404
                   0783
   405
                   0784
                                          .HDR1[HD1$L_HD1LID] EQL 'HDR1'
   406
                   0785
                                      THEN
   407
                   0786
                                          SPACE_TM(1);
                   0787
   408
                   0788
   409
                                      IF .CURRENT_VCB[VCB$B_TM] NEQ 1
   410
                   0789
                                      THEN
                   0790
   411
                                          BEGIN
                   0791
                                          IF .CURRENT_VCB[VCB$B_TM] EQL 2
                                          THEN
   415
                                               TM = -1
   416
                                          ELSE
   417
                                               BEGIN
   418
   IF _.CURRENT_VCB[VCB$V_LOGICEOVS]
                                               THEN
                  0800
                                                    TM = -3
                  0801
                                               ELSE
                                                    TM = -2;
                                               END:
                  0804
                  0805
                                          SPACE_TM(.TM);
                  0806
                                          END:
                  0807
                  0808
                                     WHILE 1
                  0809
                                     DO
                  0810
                                          BEGIN
                                                                                     ! forward space loop
                  0811
                  0812
                                          IF SPACE(.BLOCKS)
                                          THEN
                  0814
                                               EXITLOOP;
                  0816
0817
                                          USER_STATUS<16, 16> = .USER_STATUS<16, 16> + .IO_STATUS<16, 16> - 1;
                                          BLOCKS = .BLOCKS - .IO_STATUS<16, 16> + 1; ! TM counts
                  0818
0819
0820
                                          IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
                                          THEN
```

```
REWSPC
                                                                             16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                          VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1
                                                                                                                                                      Page 12 (5)
V04-000
   442
                                                ERR_EXIT(SS$_TAPEPOSLOST);
                                           IF .HDR1[HD1$L_HD1LID] EQL 'EOF1'
                                           THEN
                                                BEGIN
SETUP_END(-1);
KERNE[_CALL(RESTORE_ACCESS);
ERR_EXIT(SS$_ENDOFFILE);
   44489012345567
44557
                                           IF .HDR1[HD1$L_HD1LID] NEQ 'EOV1'
                                                ERR_EXIT(SS$_TAPEPOSLOST);
                                           GTNEXT_VOL_READ();
                                                                             ! get next volume in volume set
   458
459
                                           IF .CURRENT_VCB[VCB$B_TM] EQL 0
                                           THEN
   460
                   0839
                                                SPACE_TM(1);
   461
                   0840
   462
463
                   0841
                                           END:
   464
                                      END
                                                                                       ! end of forward space loop
                                 ELSE
                                      BEGIN
                                                                                       ! begin of backspace
   466
   467 468
                   0846
                                      IF .BLOCKS NEQ 0
   469
471
472
473
475
477
                   0848
                                      THEN
                                           BLOCKS = -(.BLOCKS);
                                      IF .BLOCKS<15, 17> NEQ 0
                                      THEN
                                           ERR_EXIT(SS$_BADPARAM);
                                        position to data if not there
   478
   479
                   0858
                                      IF NOT .CURRENT_WCB[WCB$V_READ]
   480
                                      THEN
   481
                   0860
                                           CLOSE_FILE();
   482
                   0861
   483
                   0862
0863
                                      IF .CURRENT_VCB[VCB$V_LOGICEOVS]
   484
                                      THEN
   485
                   0864
                                           SETUP_END(-3)
   486
                   0865
                                      ELSE
   487
                   0866
                                           BEGIN
                                                                                       ! read case
   488
                                           TM = .CURRENT_VCB[VCB$B_TM];
                   0867
   489
                   0868
   490
                   0869
                                           IF .TM EQL O AND .HDR1[HD1$L_HD1LID] EQL 'HDR1'
                   0870
                                           THEN
   492
                   0871
                                                BEGIN
                                                SPACE_TM(1);
                   0872
0873
   494
                                                KERNET_CALL (RESTORE_ACCESS);
                   0874
                                                ERR_EXIT(SS$_BEGOFFILE);
                   0875
   496
                                                END:
   498
                                           IF .TM EQL 0
```

VO

; |

```
0878
0879
500
501
                      0880
502
503
                      0881
                      0882
0883
504
                      0884
0885
505
506
                      0886
0887
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                      0888
510
                      0889
                      0890
511
512
513
                      0891
                      0892
0893
515
                      0894
                      0895
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                      0896
                      0897
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                      0898
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                      0899
                      0900
                      0901
                      0902
                      0903
                      0904
                      0905
                      0906
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                      0908
                      0909
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                      0910
                      0911
                      0912
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                      0914
                      0915
                      0916
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                      0918
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                      0919
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                      0920
542
543
545
546
547
550
551
552
553
                      0932
0933
0934
554
```

```
THEN
         TM = 3:
    IF .TM GEQ 2
    THEN
         SETUP_END(-(.TM - 1));
    END:
WHILE 1
    BEGIN
                                              ! beginning of backspace loop
    LOCAL
         FID.
         SEQ.
         VOL:
    IF SPACE(-(.BLOCKS))
    THEN
         EXITLOOP:
    USER_STATUS<16, 16> = .USER_STATUS<16, 16> + .IO_STATUS<16, 16> - 1;
     ! calc number remaining to space
    BLOCKS = .BLOCKS - .IO_STATUS<16, 16> + 1;
FID = .CURRENT_VCB[VCB$L_CUR_FID];
    SEQ = .CURRENT_VCB[VCB$W_CUR_SEQ];
    IF .SEQ EQL 1
    THEN
                            ! is tape positioned at beginning of file?
         BEGIN
           space to beginning of data to avoid blocking virtual 10
         SPACE_TM(1);
KERNEL_CALL(RESTORE_ACCESS);
         ERR_EXIT(SS$_BEGOFFILE);
      previous volume number
    VOL = .CURRENT_VCB[VCB$B_CUR_RVN] - 1;
MOUNT_VOL(.VOL, $FIELDMASK(MOU$V_LBLCHECK));
    BEGIN'
    LOCAL
         STATUS;
    STATUS = SYS$QIOW(EFN, .10_CHANNEL, IO$_SENSECHAR OR IO$M_CLSEREXCP,
         IO_STATUS, 0,0,0,0,0,0,0,0);
    IF .STATUS AND .IO_STATUS EQL SS$_ENDOFTAPE THEN____
         BEGIN
```

```
REWSPC
                                                                                            16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                                               VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1
                                                                                                                                                                                   Page 14 (5)
V04-000
                      0935
0936
0937
                                                         SPACE_IM(-3);
SPACE_IM(1);
SETUP_AT_END();
KERNEC_CALL(FORMAT_FID, CURRENT_VCB[VCB$L_CUR_FID]);
    556
557
558
559
                               6666
                       0938
    560
                       0939
                                                   ELSE
    561
                       0940
    562
563
564
565
566
567
568
569
                       0941
                                                          BEGIN
                                                         FID<16, 16> = .SEQ - 1;

POSITION_BY_FID(.FID, .VOL);

TM = 2 - .CURRENT_VCB[VCB$B_TM];

SPACE_TM(.TM);

SETUP_AT_END();

FND:
                       0942
                      0944
                      0946
0946
0948
0949
0951
0953
                                                          END:
    570
                                                    END:
    571
                                                    END:
                                                                                            ! end of while loop
    572
573
                                              END:
                                                                                            ! end of forward and backward space
    574
                      0954
0955
    575
                                        USER_STATUS<16, 16> = .USER_STATUS<16, 16> + .IO_STATUS<16, 16>;
    576
                                        KERNEL_CALL (RESTORE_ACCESS):
    577
                       0956
                                        END:
                                                                               07FC 00000
                                                                                                                      SPACE_IN_FILE, Save R2,R3,R4,R5,R6,R7,R8,-R9,R10
                                                                                                           .ENTRY
                                                                                                                                                                                         0707
                                                       5A 0000G
59 0000G
58 0000G
57 0000G
56 0000000G
5E
                                                                                                                      RESTORE ACCESS, R10
HDR1, R9
IO STATUS, R8
SPACE TM, R7
a#SYS$CMKRNL, R6
                                                                                  9E
9E
                                                                            CF
                                                                                      00002
                                                                                                           MOVAB
                                                                            CF
                                                                                      00007
                                                                                                           MOVAB
                                                                                  9Ē
                                                                            CF
                                                                                      00000
                                                                                                           MOVAB
                                                                            ČF
9F
                                                                                  9Ē
                                                                                      00011
                                                                                                           MOVAB
                                                                                  9Ē
                                                                                      00016
                                                                                                           MOVAB
                                                                                 ¢2 00010
05 00020
                                                                            04
                                                                                                           SUBL 2
                                                                                                                      #4, SP
                                                                  0000G
                                                                            CF
04
                                                                                                                                                                                         0758
                                                                                                           TSTL
                                                                                                                      CURRENT_WCB
                                                                                  12
                                                                                      00024
                                                                                                           BNEQ
                                                                                                                      15
                                                                                                                      #172
                                                                  OOAC
                                                                            8F
                                                                                  BF
                                                                                      00026
                                                                                                           CHMU
                                                                                                                                                                                         0760
                                                                  0000G
                                                                            ÇF
                                                        6E
50
                                                                                  DO 0002A 15:
                                                                                                           MOVL
                                                                                                                      LOCAL_FIB+24, BLOCKS
                                                                                                                                                                                         0762
                                                                            6E
03
                                                                                  DO 0002F
                                                                                                                      BLOCKS, RO
                                                                                                           MOVL
                                                                                                                                                                                         0764
                                                                                  14 00032
                                                                                                           BGTR
                                                                                  31 00034
                                                                                                                      īšs
                                                                         00BF
                                                                                                           BRW
                                                                                  B$ 00037 2$:
13 0003A
                                                                                                                      BLOCKS+2
                                                                                                           TSTW
                                                                                                                                                                                         0768
                                                                                                           BEQL
                                                                                                           CHMU
                                                                                  BF
                                                                                      0003C
                                                                                                                      #20
                                                                                                                                                                                         0770
                                                        50
02
                                                                            CF
AO
                                                                                  DO 0003E 3$:
                                                                                                                      CURRENT_WCB, RO
                                                                  0000G
                                                                                                                                                                                         0775
                                                                                                           MOVL
                                                                                  E8 00043
BF 00047
                                                                     08
                                                                                                           BLBS
                                                                                                           CHMU
                                                                                                                                                                                         0777
                                                                            AB
OF
                                                                                  95 00049 45:
                                                                     2E
                                                                                                           TSTB
                                                                                                                      46(CURRENT_VCB)
                                                                                                                                                                                         0782
                                                                                  12 00040
                                                                                                           ENEQ
                                                                            B9
05
                                                                                 D1 0004E
12 00056
                                        31524448
                                                        8F
                                                                     00
                                                                                                           CMPL
                                                                                                                      aHDR1, #827475016
                                                                                                                                                                                         0784
                                                                                                           BNEQ
                                                                            ÕĨ
                                                                                  DD 00058
                                                                                                           PUSHL
                                                                                                                                                                                         0786
                                                        67
01
                                                                                      0005A
                                                                            01
                                                                                  FB
                                                                                                           CALLS
                                                                                                                      #1.
                                                                                                                           SPACE TM
                                                                                 91 0005D
13 00061
                                                                                                                      46(CURRENT_VCB), #1
                                                                            AB
1D
                                                                                      0005D 5$:
                                                                                                           CMPB
                                                                                                                                                                                         0788
                                                                                                           BEQL
                                                                     2E
                                                                                  91 00063
                                                                                                                      46(CURRENT_VCB), #2
                                                        02
                                                                            AB
                                                                                                           CMPB
                                                                                                                                                                                         0792
```

RW\

VOL

					M 8 16-Sep-19 14-Sep-19	984 02:31: 984 12:46:	54 VAX-11 Bliss-32 V4.0-742 49 [MTAACP.SRC]REWSPC.B32;1	Page 15 (5)
		05 OB	52 AB 52 52	01 001 03 03	12 00067 CE 00069 11 0006C E1 0006E 6\$: CE 00073 11 00076 CE 00078 7\$: DD 0007B 8\$:	BNEQ MNEGL BRB BBC MNEGL BRB MNEGL PUSHL	6\$ #1, TM 8\$ #1, 11(CURRENT_VCB), 7\$ #3, TM 8\$ #2, TM	0794 0798 0800 0802
		0000G	67 CF 03	01 6E 01 50 018E	FB 0007D 9\$: DD 00080 10\$: FB 00082 E9 00087 31 0008A	CALLS PUSHL CALLS BLBC BRW	N1, SPACE_TM BLOCKS N1, SPACE R0, 11\$ 28\$	0805
	0000G	CF 50	50 0000 51 02 50 50 02 6E 6E 01 7E 50	G CF A8 51 01 A8 50 A0	3C 0008D 11\$: 3C 00092 CO 00096 A3 00099 3C 0009F C3 000A3 9E 000A7 9A 000AB	MOVZWL MOVZWL ADDI 2	USER_STATUS+2, RO IO_STATUS+2, R1 R1, R0 #1, R0, USER_STATUS+2 IO_STATUS+2, R0 R0, BLOCKS, R0 1(R0), BLOCKS	0816 0817 0819
		00006	CF 04	69 02	DD 000AF FB 000B1 E8 000B6	CALLS	#80, -(SP) HDR1 #2, RFAD_BLOCK	
		31464F45	8F 00	8F B9	BF 000B9 D1 000BD 12\$:	BLBS CHMU CMPL	RO, 12\$ #548 #548 aHDR1, #826691397	0821 0823
		FECC	7E CF	01 01 7E	12 000C5 CE 000C7 FB 000CA D4 000CF	BNEQ MNEGL CALLS CLRL	13\$ #1, -(SP) #1, SETUP_END -(SP)	0826 0827
		3 1564F45	66 8F 00 0224 2E	03 8F 89 04 8F 0000G AB 8E	BB 000D1 FB 000D5 BF 000D8 D1 000DC 13\$: 13 000E4 BF 000E6 30 000EA 14\$: 95 000ED	PUSHR CALLS CHMU CMPL BEQL CHMU BSBW TSTB BNEQ PUSHL	<pre>#^M<r10,sp> #3, SYS\$CMKRNL #2160 aHDR1, #827739973 14\$ #548 GTNEXT_VOL_READ 46(CURRENT_VCB) 10\$</r10,sp></pre>	0828 0831 0833 0835 0837
00	01	AE	6E 11	01 87 03 50 07 02	DD 000F2 11 000F4 13 000F6 15\$: CE 000F8	BRB BEQL MNEGL CMPZV BEQL	#1 9\$ 16\$ RO, BLOCKS #7, #17, BLOCKS+1, #0 17\$	0839 0847 0849 0851
			50 0000 03 08	G CF	13 00101 BF 00103 DO 00105 17\$: E8 0010A 30 0010E E1 00111 18\$: CE 00116 11 00119 9A 0011B 19\$:	CHMU MOVL BLBS BSBW	#20 CURRENT_WCB, RO 11(RO), 18\$ CLOSE_FILE #1, 17(CURRENT_VCB), 19\$	0853 0858 0860
		05 OB	AB 7E	01 03 34	E1 00111 18\$: CE 00116 11 00119	BBC MNEGL BRB	#1, 1T(CURRENT_VCB), 19\$ #3, -(SP)	0862 0864
		31524448	52 2E 8F 00	AB 1 1 C B9	9A 0011B 19\$: 12 0011F D1 00121 12 00129 DD 0012B	MOVZBL BNEQ CMPL BNEQ PUSHL	#3, -(SP) 22\$ 46(CURRENT_VCB), TM 20\$ aHDR1, #827475016 20\$	0867 0869 0872

RW\ VO4

					N 8 16-Sep-1 14-Sep-1	984 02:31: 984 12:46:	: 54 : 49	VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;	Page 16 (5)	
		67	9	01 FB	00120	CALLS	#1, SI	PACE_TM	;	
		66	4400	01 FB 7E D4 8F BB 03 FB 8F BF	00130 00132	CLRL PUSHR CALLS	#^M <r< td=""><td>10,SP></td><td>0873</td><td></td></r<>	10,SP>	0873	
		00	0938	BF BF	00139	CHMU	#2360 TM	YS\$CMKRNL	. 0874 . 0877	
		52	ĺ	52 D5 03 12 03 D0 52 D1 08 19 65 CE) 00141	BNEQ MOVL	21 \$ #3, TI	M	0879	
		52 02		52 D1 08 19	00144 21\$:	CMPL BLSS	TM. #7	2	0881	
		6E CF	FF /	A2 9F SE CE D1 FB	: 00140	PUSHAB MNEGL	23\$ -1(TM (SP),	(SP)	0883	
	FE47	7E		OT FB	0014f 22 \$: 00154 23 \$:	CALLS MNEGL	M1. SI BLOCK	ETUP_END S, -(SP) PACE	0896	
	0000G	CF 03		01 FB	00154 23\$: 00157 0015C 0015F 00162 24\$:	RFRC	#1, SI RO, 24	PACE 4 \$;	
		50 51		39 31 CF 30 A8 30	00162 24\$:	BRW MOVZWL MOVZWL	HCED (STATUS+2, RO	0900	
0000G CF		501 5500 5500 6655 61	9	51 CO	: 00167) 0016B : 0016F	ADDL2 SUBW3	R1, R	ATUS+2, RU ATUS+2, R1 0 0, USER_STATUS+2 ATUS+2, R0 LOCKS, R0 , BLOCKS RRENT_VCB), FID		
50		50 6F	02	A8 30 50 C3	: 00174	MOVZWL SUBL3	IO_ST	ATUS+2, RO	0904	
		6E 55	01 24	AO 9E AB DO	• 00176	MOVĀB MOVL	1(Ŕ0) 36(CUI	, BLOCKS RRENT VCB), FID	0905	
		54 01	26	AB 30 54 D1	00184 00188	CMPL	SEQ.	MUTHITACON, SEA	. 0906 : 0908	
		4.	(12 12 01 DD	ספוטט ס	BNEQ PUSHL	25 \$		0915	
		67	•)1 FB 7E D4	00192	CLRL	-(SP)	PACE_TM	. 0916	
		66	4400	3F BB	00198	PUSHR CALLS	#3, S'	10,SP> YS\$CMKRNL	2017	
		53	0938 8 2F	BF BF AB 9A D2 DD	0019B 0019F 25\$:	CHMU MOVZBL	47(CUI #2	RRENT_VCB), VOL	; 0917 ; 0922 ; 0923	
	0000G	CF	7	73 9F 02 FB	001A5	PUSHL PUSHAB CALLS	-(VOL)) DUNT_VOL	, 0723	
	00000	Ç.		7E 7C	001AC 001AF	CLRQ	-(SP) -(SP)	20141 _ 40 E	0929	
				7E 7C 7E 7C 7E 7C 58 DD 3F 3C CF DD	0019F 25\$: 001A3 001A5 001A7 001AC 001AE 001B0	CLRO	-(SP) -(SP)		•	
		7E	021B	3F 3C	001B6	CLRQ PUSHL MOVZWL	R8	-(SP)		
			()1 DD	001BB 001BF	PUSHL PUSHL	10_CH/	ANNEL	•	
	000000006	9F		C FB	001C1 001C8	CALLS	STATUS	DWSYS\$QIOW 5, 26\$: 0932	
	00000878	8F		8 D1 20 12 3 CE	! 001D2	CMPL BNEQ	10 ST/	Afus, #2168 (SP)	0075	
		7t 67)1 FB	00104	BLBC CMPL BNEQ MNEGL CALLS PUSHL	#1. SI	(SP) PACE_TM	0935	
	0000v	67 CF	()1 FB	001DA 001DC 001DF	CALLS CALLS	W1. SI	PACE_TM ETUP_AT_END	0936	
	00004		24	NB 9F	001E4 001E7	PUSHAB PUSHL	36 (CUI	RRENT_VCB)	0938	
			`				•		•	

RW\ VO4

REWSPC V04-000	B 9 16-Sep-1984 02:31:54	e 17 (5)
55 10 50 0000G CF 52 02 0000V CF 0000G CF	SE	0932 0942 0943 0944 0945 0946 0887 0954 0955
; Routine Size: 555 bytes, Routine Ba	: \$CODE\$ + 0109	

; 578 0957 1

```
9
REWSPC
                                                                                 16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                               VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                               [MTAACP.SRC]REWSPC.B32:1
   580
581
                    0958
0959
                              ROUTINE SETUP_AT_END : COMMON_CALL NOVALUE =
   0960
                              1++
                           Ì
                    0961
                    0962
                                FUNCTIONAL DESCRIPTION:
                                        This routine makes the current file section current and positions at end of this file section's data
                    0964
0965
0966
0967
                                 CALLING SEQUENCE:
                                        SETUP_AT_END()
                    0968
                   0969
0970
0971
0972
0973
0974
0975
0976
0977
                                 INPUT PARAMETERS:
                                        none
                                 IMPLICIT INPUTS:
                                        none
                                 OUTPUT PARAMETERS:
                                        norie
   600
601
602
603
                                 IMPLICIT OUTPUTS:
                                        file section made current
                    start record of data section calculated
   604
605
                                ROUTINE VALUE:
                                        none
   606
   607
                                SIDE EFFECTS:
                                        none
   608
   609
   610
   611
                                   BEGIN
   612
   613
                                   EXTERNAL REGISTER
   614
   615
                                        COMMON_REG;
   616
   617
                                   IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
   618
                                   THEN
   619
                                        ERR_EXIT(SS$_TAPEPOSLOST);
   620
621
622
623
624
625
                                   IF .HDR1[E01$L_E01LID] NEQ 'EOV1'
                                   THEN
                                        ERR_EXIT(SS$_TAPEPOSLOST);
                                   SETUP_END(-1);
   626
                    1004
                                   END:
```

0958 0995 RWV VO4

Page

18

(6)

7E

0000G CF

00ÓÖG

_	REWSPC V04-000		D 9 16-Sep- 14-Sep-	1984 02:31:54 VAX-11 Bliss-32 V4.0-742 1984 12:46:49 [MTAACP.SRC]REWSPC.B32;1	Page 19 (6)
		04 31564F45 8F 0	50 E8 0000F 0224 8F BF 00012 0000G DF D1 00016 1\$:	BLBS RO, 1\$ CHMU #548 CMPL ahdr1, #827739973	: 0997 : 0999
			50 E8 0000F 0224 8F BF 00012 0000G DF D1 00016 1\$: 04 13 0001F 0224 8F BF 00021 01 CE 00025 2\$: 01 FB 00028 04 0002D	BEQL 2\$ CHMU #548 MNEGL #1, -(SP) CALLS #1, SETUP_END RET	1001 1003 1004
	; Routine Size: 46 bytes,	Routine Base: \$0	CODE\$ + 0334		
	: 627 1005 1 END : 628 1006 1 : 629 1007 0 ELU				
	: Name	PSECT SU Bytes	MMARY Attribut	es	
	\$CODE\$	866 NOVE	C,NOWRT, RD , EXE,NOSH	R, LCL, REL, CON, NOPIC, ALIGN(2)	
	•	lihosov Cestice			

Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	28	0	1000	00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:REWSPC/OBJ=OBJ\$:REWSPC MSRC\$:REWSPC/UPDATE=(ENH\$:REWSPC)

; Size: 866 code + 0 data bytes ; Run Time: 00:17.9 ; Elapsed Time: 00:37.9 ; Lines/CPU Min: 3367 ; Lexemes/CPU-Min: 17073 ; Memory Used: 197 pages ; Compilation Complete ; F

RW\ 904

;

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